

NODE=M232

X(5568) $^\pm$ $I(J^P) = ?(?)$

OMITTED FROM SUMMARY TABLE

Seen as a peak in the $B_s\pi^\pm$ mass spectrum with a significance of more than 3σ by ABAZOV 16E in inclusive $p\bar{p}$ collisions at 1.96 TeV.
Needs confirmation.

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X(5568) $^\pm$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
5567.8±2.9$^{+0.9}_{-1.9}$	133	¹ ABAZOV	16E D0	$p\bar{p} \rightarrow B_s\pi^\pm X$

¹ Assumes $X(5568)\pm \rightarrow B_s\pi^\pm$ decay. If $X(5568)\pm \rightarrow B_s^*\pi^\pm$ decay is assumed, the mass shifts upward by 49 MeV.

NODE=M232M

NODE=M232M

NODE=M232M;LINKAGE=A

X(5568) $^\pm$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
21.9±6.4$^{+5.0}_{-2.5}$	133	ABAZOV	16E D0	$p\bar{p} \rightarrow B_s\pi^\pm X$

NODE=M232W

NODE=M232W

NODE=M232215;NODE=M232

X(5568) $^\pm$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 B_s\pi^\pm$	seen

DESIG=1

NODE=M232220

NODE=M232R01
NODE=M232R01

NODE=M232R01;LINKAGE=A

X(5568) $^\pm$ BRANCHING RATIOS

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	133	¹ ABAZOV	16E D0	$p\bar{p} \rightarrow B_s\pi^\pm X$	

¹ Seen in $p\bar{p}$ collisions at 1.96 TeV at a rate of $(8.6 \pm 1.9 \pm 1.4)\%$ relative to inclusive B_s production in the kinematic region $10 < p_T(B_s) < 30$ GeV/c. An alternative possibility, $X(5568)\pm \rightarrow B_s^*\pi^\pm$ with a missing γ , could not be ruled out.

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REFID=57453

X(5568) $^\pm$ REFERENCES

ABAZOV 16E PRL 117 022003 V.M. Abazov *et al.* (D0 Collab.)